

## PATENT APPLICATION

Sheet 1 of 4

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200311116-1

APPLICATION NO.

10/734713

CONFIRMATION NO

APPLICANT

Raymond G. Beausoleil et al.

FILING DATE

12/12/2003

GROUP

Art Unit

2129

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A				
	1B				
	1C				
	1D				
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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

mtt	1Q	Benson, Oliver et al., "Regulated and Entangled Photons from a Single Quantum Dot," Physical Review Letters, Vol. 84, No. 11, Pages 2513-2516 (March 13, 2000).
mtt	1R	Bouwmeester, Dik et al., "Observation of Three-Photon Greenberger-Horne-Zeilinger Entanglement," Physical Review Letters, Vol. 82, No. 7, Pages 1345-1349 (February 15, 1999).
mtt	1S	Chen, Kay-Yut et al., "A Quantum Treatment of Public Goods Economics," Quantum Information Processing, Vol. 1, No. 6, Pages 449-469 (December 2002).

EXAMINER

MAI T. TRAN

DATE CONSIDERED

2/28/06

**PATENT APPLICATION**

Sheet 2 of 4

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ATTY. DOCKET NO.

**200311116-1**

APPLICATION NO.

**10/734 713**

CONFIRMATION NO

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**Raymond G. Beausoleil et al.**

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**Art Unit  
2129**

**REFERENCE DESIGNATION**

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	2M					
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	2P					

**OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)**

<i>mtt</i>	2Q	Kwiat, Paul G. et al., "Ultrabright Source of Polarization-entangled Photons," Physical Review A, Vol. 60, No. 2, Pages R 773-776 (August 1999).
<i>mtt</i>	2R	O'Brien, J.L. et al., "Demonstration of an all-optical quantum-controlled-NOT gate," Nature, Vol. 426, Pages 264-267 (November 20, 2003).
<i>mtt</i>	2S	Pan, Jian-Wei et al., "Experimental Demonstration of Four-Photon Entanglement and High-Fidelity Teleportation," Physical Review Letters, Vol. 86, No. 20 (May 14, 2001).

EXAMINER

**NAI T. TRAN**

DATE CONSIDERED

**2/29/06**

PATENT APPLICATION

Sheet 3 of 4

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	3L				
	3M				
	3N				
	3O				
	3P				

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

mtt	3Q	Pan, Jian-Wei et al., "Entanglement purification for Quantum Communication," Nature, Vol. 410, Pages 1067-1070 (April 26, 2001).
mtt	3R	Tanzilli, S. et al., "Highly efficient photon-pair source using periodically poled lithium niobate waveguide," Electronics Letters, Vol. 37, No. 1 (January 4, 2001).
mtt	3S	Pittman, T.B. et al., "Probabilistic quantum logic operations using polarizing beam splitters," Physical Review A, Vol. 64, Pages 062311-1 to 062311-9 (2001).

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NAI T. TRAN

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	4O					
	4P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

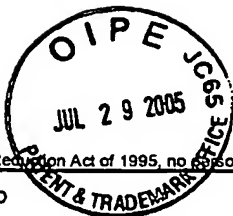
<u>mtt</u>	4Q	Pittman, T.B. et al., "Experimental controlled-NOT logic gate for single photons in the coincidence basis," Physical Review A, Vol. 68, Pages 032316-1 to 032316-4 (2003).
<u>mtt</u>	4R	Zhang et al., "Reduced Entanglements for Quantum Games," Pages 1-27 (July 31, 2003).
	4S	

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MAI T. TRAN

DATE CONSIDERED

2/28/06



PTO/SB/08B (08-03)

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/734,713
Filing Date	12/12/2003
First Named Inventor	Beausoleil et al
Art Unit	2129
Examiner Name	MAI T. TRAN
Attorney Docket Number	200311116-1

Sheet 1 of 1

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
mtt		BENJAMIN, S. C. ET AL - "Multiplayer Quantum Games" - Physical Review A - vol 64 no 030301 - 08/13/2001	
mtt		HUBERMAN, B. A. ET AL - "Quantum Solution of Coordination Problems" - Online! - June 12, 2003	
mtt		DU, J ET AL - "Entanglement Enhanced Multiplayer Quantum Games" - Physics Letters A - vol 302 no 5-6 - 09/30/2002 - pgs 229-233	
mtt		AKIHISA, TOMITA - "Complete Bell State Measurement With Controlled Photon Absorption And Quantum Interface" - Online! - June 21, 2000	
mtt		SINGH, S. K. - "Characterizing The Combinatorics Of Distributed EPR Pairs For Multi-Partite Entanglement" - Online! - January 1, 2004	

Examiner Signature		Date Considered	2/28/06
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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